



Congress of the United States

House of Representatives

COMMITTEE ON FINANCIAL SERVICES
CAPITAL MARKETS, INSURANCE AND GSEs
FINANCIAL INSTITUTIONS AND
CONSUMER CREDIT
COMMITTEE ON SCIENCE AND
TECHNOLOGY
CHAIRMAN, INVESTIGATIONS AND OVERSIGHT
COMMITTEE ON FOREIGN AFFAIRS
AFRICA AND GLOBAL HEALTH
EUROPE

House Appropriations Request FY 2010

Project Name: Nanostructured Materials for Renewable Energy
Recipient: North Carolina State University
Recipient Address: Campus Box 7214 (Contracts and Grants)
Recipient City: Raleigh
Recipient State: North Carolina
Recipient Zip: 27695

Amount of Request: \$1,000,000


Explanation of the request:

New technology for low cost renewable energy that minimizes production of greenhouse gases is one of the most important and scientifically difficult challenges of the 21st century. Nanotechnology is a new scientific field focused on controlling matter at the scale of one nanometer.

North Carolina State University has key expertise in areas of nanoscale science and renewable energy. It will use the requested funds to achieve three goals:

First, develop the "Energy Nano-Engineering Laboratory," to provide equipment facilities for research and education in energy materials and device fabrication and testing at NC State. Second, to fund "seed" research in 5 key areas of nanofabrication for photovoltaic structures, including: (1) Atomic and molecular layer deposition; (2) Nano-evaporation for large area nanostructures; (3) Nanopatterning and nanorod structures; (4) Direct writing chemistry for nanoscale conductivity; and (5) Gel-based photoactive materials and devices. Third, to expand outreach to the community and K-12 education through coordination with NC State's Nanotechnology Initiative.

In order to offer more opportunity for public scrutiny, I have posted information on each project request submitted to the Appropriations Committee at the time the request was made.


Rep. Brad Miller

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